

## CVD-COVID-UK/COVID-IMPACT Research Outputs

The papers and preprints listed below have been produced on behalf of the [CVD-COVID-UK/COVID-IMPACT Consortium](#), supported by the [BHF Data Science Centre](#).

In line with the consortium's principles - based on a collaborative, transparent and inclusive ethos - all related analysis plans, protocols, code, phenotype code lists and reports are made publicly available via the centre's [collection on the HDR UK Gateway](#), repositories in the centre's [GitHub organisation](#) and through open-access publications (via the links below).

### Published papers and preprints

#### **March 2022**

- Title:** Evaluation of antithrombotic use and COVID-19 outcomes in a nationwide atrial fibrillation cohort. *Heart*.
- Project:** CCU020: Evaluation of antithrombotic use and COVID-19 outcomes
- DOI:** <http://dx.doi.org/10.1136/heartjnl-2021-320325>
- GitHub:** <https://github.com/BHFDSC/CCU020>
- Title:** Risk of myocarditis and pericarditis following BNT162b2 and ChAdOx1 COVID-19 vaccinations. *medRxiv*.
- Project:** CCU002\_03: COVID-19 vaccination and disease and the risks of myocarditis and pericarditis
- DOI:** <https://doi.org/10.1101/2022.03.06.21267462>
- GitHub:** [https://github.com/BHFDSC/CCU002\\_03](https://github.com/BHFDSC/CCU002_03)
- Title:** Using national electronic health records for pandemic preparedness: validation of a parsimonious model for predicting excess deaths among those with COVID-19. *Preprints with The Lancet*.
- Project:** CCU003\_03: Using national electronic health records for pandemic preparedness: validation of a parsimonious model for predicting excess deaths among those with COVID-19.
- DOI:** <https://dx.doi.org/10.2139/ssrn.4052647>
- GitHub:** [https://github.com/BHFDSC/CCU003\\_03](https://github.com/BHFDSC/CCU003_03)

#### **February 2022**

- Title:** Association of COVID-19 vaccines ChAdOx1 and BNT162b2 with major venous, arterial, or thrombocytopenic events: A population-based cohort study of 46 million adults in England. *PLOS Medicine*.
- Project:** CCU002\_02: COVID-19 vaccination and disease and the risks of major venous and arterial vascular events
- DOI:** <https://doi.org/10.1371/journal.pmed.1003926>
- GitHub:** [https://github.com/BHFDSC/CCU002\\_02](https://github.com/BHFDSC/CCU002_02)

## January 2022

- Title:** The adverse impact of COVID-19 pandemic on cardiovascular disease prevention and management in England, Scotland and Wales: A population-scale descriptive analysis of trends in medication data. *medRxiv*.
- Project:** CCU014\_01: Assessing cardiovascular disease impact through medicines
- DOI:** <https://doi.org/10.1101/2021.12.31.21268587>
- GitHub:** [https://github.com/BHFDSC/CCU014\\_01](https://github.com/BHFDSC/CCU014_01)

## December 2021

- Title:** A nationwide deep learning pipeline to predict stroke and COVID-19 death in atrial fibrillation. *medRxiv*.
- Project:** CCU004\_02: Prediction of stroke and COVID-19 death using deep learning and sequential medical histories in a nationwide atrial fibrillation cohort
- DOI:** <https://doi.org/10.1101/2021.12.20.21268113>
- GitHub:** [https://github.com/BHFDSC/CCU004\\_02](https://github.com/BHFDSC/CCU004_02)

## November 2021

- Title:** Association of COVID-19 with arterial and venous vascular diseases: a population-wide cohort study of 48 million adults in England and Wales. *medRxiv*.
- Project:** CCU002\_01: SARS-CoV-2 infection and risk of major vascular events
- DOI:** <https://doi.org/10.1101/2021.11.22.21266512>
- GitHub:** [https://github.com/BHFDSC/CCU002\\_01](https://github.com/BHFDSC/CCU002_01)
- Title:** Predicting and validating risk of pre-pandemic and excess mortality in individuals with chronic kidney disease. *Preprints with The Lancet*.
- Project:** CCU003\_01: Predicting and validating risk of pre-pandemic and excess mortality during the COVID-19 pandemic in individuals with chronic kidney disease
- DOI:** <https://dx.doi.org/10.2139/ssrn.3970707>
- GitHub:** [https://github.com/BHFDSC/CCU003\\_01](https://github.com/BHFDSC/CCU003_01)
- Title:** Understanding COVID-19 trajectories from a nationwide linked electronic health record cohort of 57 million people: phenotypes, severity, waves & vaccination. *medRxiv*.
- Project:** CCU013\_01: Characterising COVID-19 related events in a nationwide electronic health record cohort of 57 million people in England
- DOI:** <https://doi.org/10.1101/2021.11.08.21265312>
- GitHub:** [https://github.com/BHFDSC/CCU013\\_01\\_ENG-COVID-19\\_event\\_phenotyping](https://github.com/BHFDSC/CCU013_01_ENG-COVID-19_event_phenotyping)

**April 2021**

**Title:** Linked electronic health records for research on a nationwide cohort of more than 54 million people in England: data resource. *BMJ*.

**Project:** CCU005: Data management and analysis methods

**DOI:** <https://doi.org/10.1136/bmj.n826>

**GitHub:** <https://github.com/BHFDSC/Linked-EHR-England-2021>